TECHNICAL DATA SHEET

umicore
Cobalt & Specialty Materials

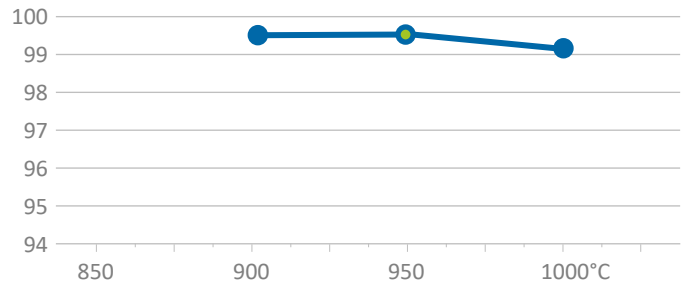
SBX100

Self-Brazing powder

TYPICAL PHYSICAL AND CHEMICAL DATA

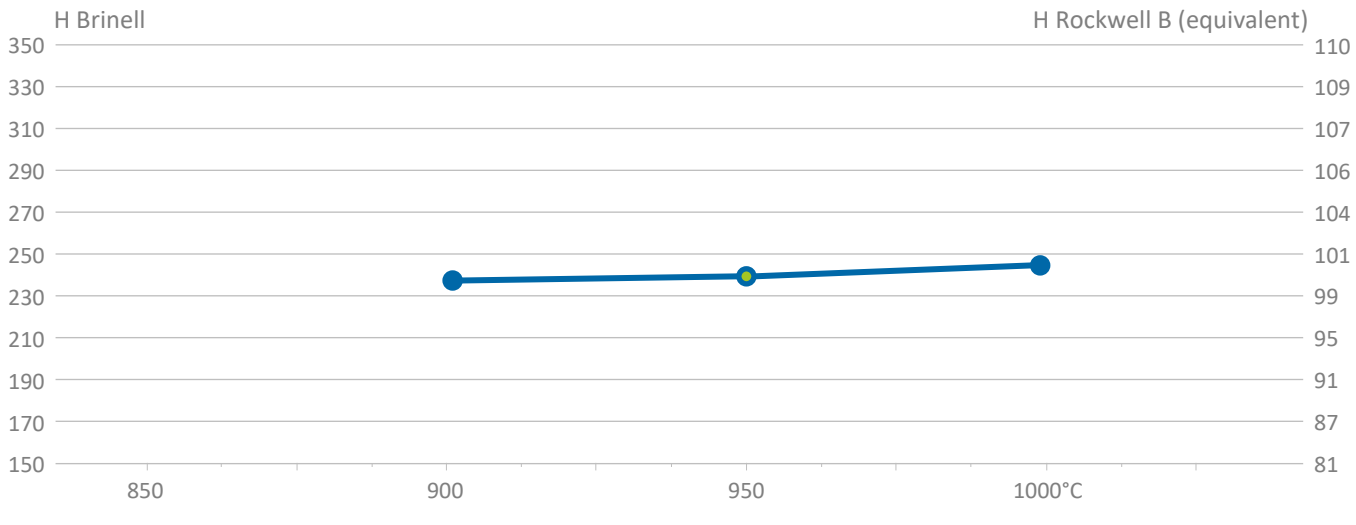
SBX100 powder	
Theoretical density *(g/cm³)*	8.05
Scott density *(g/cm³)*	2,4
Tap density *(g/cm³)*	4,0
Oxygen content *(wt %)*	0,4

% RELATIVE DENSITY



SINTERING CONDITIONS	
Minimum sintering temperature	900°C
Recommended sintering temperature	950°C
Cold Pressure	200 MPa
Holding time	60 min
Atmosphere	100% H_2

HARDNESS



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09/2024 - version 1

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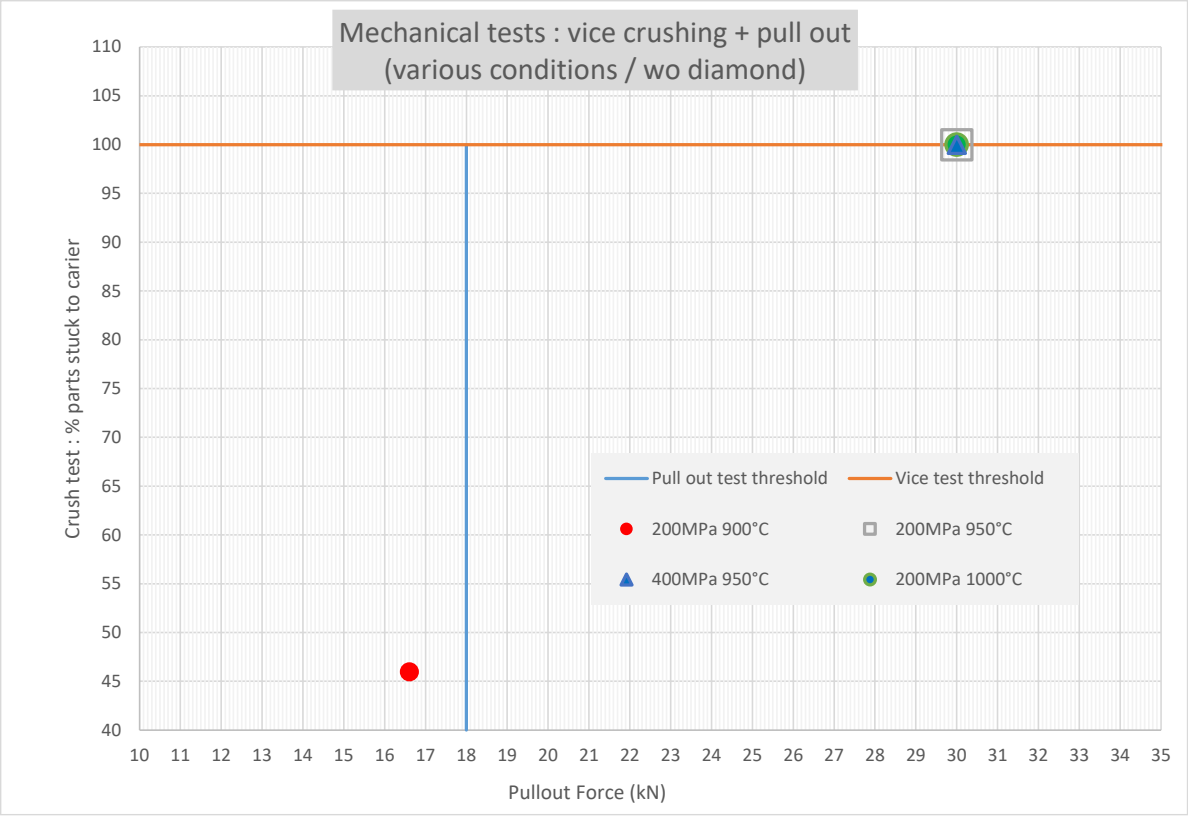
Uncoupling and vice test



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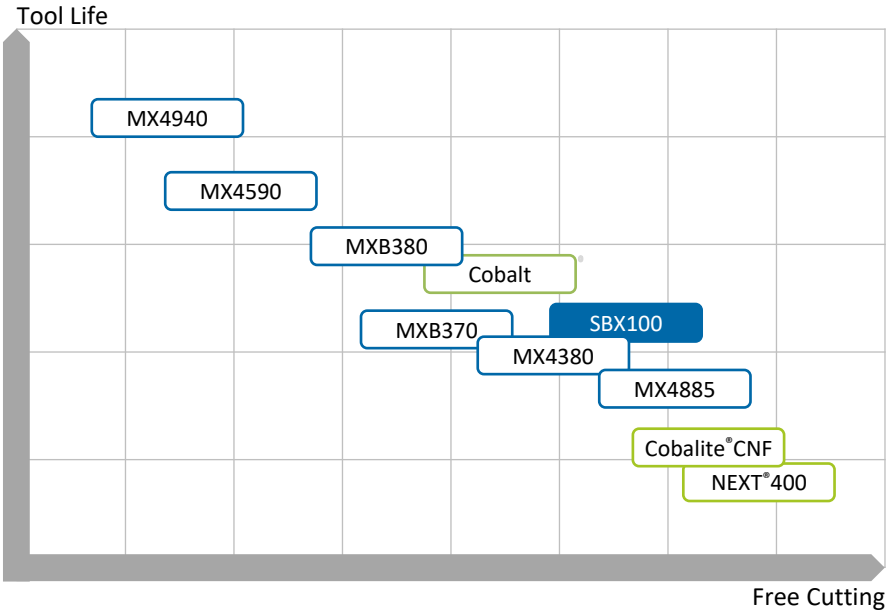
PERFORMANCES - RELATIVE POSITIONING



APPLICATIONS

TOOLS	☐ Saw blade	☑ **Quarry wire**	☐ Grinding tool
	☐ Core drill	☑ **Single wire**	☐ Polishing tool
	☐ Gang saw	☑ **Multi-wires**	☐ Profiling tool

MATERIALS	☐ Limestone	☐ Sandstone	☐ Synthetic stone
	☐ **Marble**	☐ Concrete	☐ Ceramic
	☑ **Granite**	☐ Asphalt	☐ Glass

Above information is indicative. For detailed recommendation, please contact us.

SAFETY & MSDS

Material is packed in aluminized plastic bags under inert atmosphere
Keep bags tightly closed and in a dry area
After opening and to avoid any oxydation, use the desiccant bags placed in the drums for further usage

Review and follow carefully the handling and exposure precautions detailed in the Material Safety Data Sheet (MSDS) or Information Product Sheet (IPS)
For more information, contact toolmaterials@eu.umicore.com

GENERAL INFORMATION

Umicore Cobalt and Specialty Materials produces and markets a variety of Cobalt-, Nickel-, or Tungsten-based chemicals and powders for a broad range of industrial applications including hard metals, diamond tools, pigments, catalysis, plating, paint, tires and animal feed.